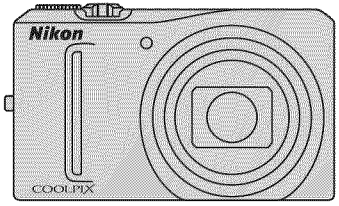
Nikon

DIGITAL CAMERA

COOLPIX S9100

User's Manual



En

Trademark Information

- Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Macintosh, Mac OS, and QuickTime are trademarks of Apple Inc., registered in the U.S. and other countries. The iFrame logo and the iFrame symbol are trademarks of Apple Inc.
- Adobe and Acrobat are registered trademarks of Adobe Systems Inc.
- SDXC, SDHC and SD Logos are trademarks of SD-3C, LLC.
- PictBridge is a trademark.
- HDMI, HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- All other trade names mentioned in this manual or the other documentation provided with your Nikon product are trademarks or registered trademarks of their respective holders.

AVC Patent Portfolio License

This product is licensed under the AVC Patent Portfolio License for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC standard ("AVC video") and/or (ii) decode AVC video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, L.L.C.
See **http://www.mpegla.com**.

Introduction

First Steps

Basic Photography and Playback: (Auto) Mode

More on Shooting

More on Playback

Editing Images

Movie Recording and Playback

Connecting to Televisions, Computers and Printers

Basic Camera Setup

Caring for the Camera

Technical Notes and Index

For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury.

WARNINGS

⚠ Turn off in the event of malfunction

Should you notice smoke or an unusual smell coming from the camera or Charging AC Adapter, unplug the Charging AC Adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.

⚠ Do not disassemble

Touching the internal parts of the camera or Charging AC Adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or Charging AC Adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery.

⚠ Do not use the camera or Charging AC Adapter in the presence of flammable gas

Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

⚠ Handle the camera strap with care

Never place the strap around the neck of an infant or child.

⚠ Keep out of reach of children

Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.

⚠ Observe caution when handling the battery

The battery may leak, overheat, or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the Charging AC Adapter/AC adapter, be sure it is unplugged.
- Use only a Rechargeable Li-ion Battery EN-EL12 (supplied). Charge the battery by using a camera that supports battery charging or by using a Battery Charger MH-65 (available separately). To charge the battery with the camera, use either Charging AC Adapter EH-69P (supplied) or the **Charge by computer** function.
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flame or to excessive heat.
- Do not immerse in or expose to water.
- Replace the terminal cover when transporting the battery. Do not transport or store with metal objects such as necklaces or hairpins.
- The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water.

⚠ Observe the following precautions when handling the Charging AC Adapter

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the plug or go near the Charging AC Adapter during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the USB cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or Charging AC Adapter with wet hands. Failure to observe this precaution could result in electric shock.
- Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

⚠ Use appropriate cables

When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

⚠ Handle moving parts with care

Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts.

⚠ CD-ROMs

The CD-ROMs supplied with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

⚠ Observe caution when using the flash

Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than 1 m (3 ft. 4 in.) from the subject.

⚠ Do not operate the flash with the flash window touching a person or object

Failure to observe this precaution could result in burns or fire.

⚠ Avoid contact with liquid crystal

Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

⚠ Turn the power off when using inside an airplane or the hospital

Turn the power off while inside the airplane during take off or landing. Follow the instructions of the hospital when using while in a hospital. The electromagnetic waves given out by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital.

Notices for Customers in the U.S.A.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed.

The power supply unit is intended to be correctly orientated in a vertical or floor mount position.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

FC **Nikon**
COOLPIX S9100

CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Notice for customers in the State of California

WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Wash hands after handling.

Nikon Inc.,

1300 Walt Whitman Road
Melville, New York 11747-3064
USA

Tel: 631-547-4200

Notice for customers in Canada

CAUTION

This Class B digital apparatus complies with Canadian ICES-003.

ATTENTION

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Notices for customers in Europe

CAUTIONS

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately.

The following apply only to users in European countries:

- All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

Table of Contents

For Your Safety ii
WARNINGS ii
Notices v

Introduction 1
About This Manual 1
Information and Precautions 2
Parts of the Camera 4
The Camera Body 4
The Monitor 6
Basic Operations 9
Raising and Lowering the Flash (Flash Pop-up Control) 9
The Shutter-release Button 9
Mode Dial 10
The (Playback) Button 10
The (Movie-record) Button 10
The Rotary Multi Selector 11
Using Camera Menus 12
Switching Between the Tabs on Menu Screens 13
Attaching the Camera Strap 13

First Steps 14
Inserting the Battery 14
Removing the Battery 15
Charging the Battery 16
Turning On and Off the Camera 19
Setting Display Language, Date, and Time 20
Inserting Memory Cards 22
Removing Memory Cards 22

Basic Photography and Playback: (Auto) Mode 24
Step 1 Turn the Camera On and Select (Auto) Mode 24
Indicators Displayed in (Auto) Mode 25
Step 2 Frame a Picture 26
Using the Zoom 27
Step 3 Focus and Shoot 28
Step 4 Playing Back and Deleting Images 30
Playing Back Images (Playback Mode) 30
Deleting Unwanted Images 31
Using the Flash 32
Setting the Flash Mode 33
Taking Pictures with the Self-timer 35
Taking Pictures with the Smile Timer 37
Macro Mode 39

Adjusting Brightness (Exposure Compensation), Vividness, and Hue 40
Operating the Creative Slider 41
Adjusting Exposure Compensation 44

More on Shooting 45
Selecting a Shooting Mode (Mode Dial) 45
Changing 📷 (Auto) Mode Settings (Shooting Menu) 46
Image Mode (Image Quality/Image Size) 47
White Balance (Adjusting Hue) 49
Metering 51
ISO Sensitivity 52
AF Area Mode 53
Autofocus Mode 60
Shooting Suited to Scenes (Scene Mode) 61
Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector) 62
Choosing a Scene and Shooting (Scene Mode Types and Characteristics) 64
Shooting with Easy Panorama 75
Playing Images Captured with Easy Panorama 77
Shooting with Panorama Assist 78
Burst Shooting (Continuous Shooting Mode) 80
Changing Continuous Shooting Mode Settings 82
Applying Effects When Shooting (Special Effects Mode) 85
Camera Settings that Cannot Be Applied Simultaneously 87

More on Playback 89
Operations in Full-frame Playback Mode 89
Displaying the Histogram and Shooting Information 91
Playing Images Captured Using Continuous Shooting Mode (Sequence) 92
Viewing Multiple Images: Thumbnail Playback 94
Calendar Display 96
Taking a Closer Look: Playback Zoom 97
Playing Back Images by Category 99
Sorting Favorite Images (Favorite Pictures Mode) 101
Adding Images to an Album 101
Viewing Images in an Album 103
Removing Images From an Album 104
Using Favorite Pictures Mode 105
Favorite Pictures Menu 105
Changing the Album Icons 106
Finding Images in Auto Sort Mode 109
Viewing Images in Auto Sort Mode 109
Operations in Auto Sort Mode 112
Auto Sort Menu 112

Viewing Images by Date (List by Date) 113
Viewing Images in List by Date Mode 113
Operations in List by Date Mode 114
List by Date Menu 114
Playback Options: Playback Menu 115
Print Order (Creating a DPOF Print Order) 117
Slide Show 121
Protect 122
Rotate Image 124
Voice Memo 125
Copy (Copy Between Internal Memory and Memory Card) 127
Sequence Display Options 129
Choose Key Picture 129

Editing Images 130
Editing Functions 130
Image Editing 132
Quick Retouch: Enhancing Contrast and Saturation 132
D-Lighting: Enhancing Brightness and Contrast 133
Skin Softening: Softening Skin Tones 134
Filter Effects (Digital Filter) 135
Frame (Adding Frames to Images) 137
Small Picture: Decreasing Image Size 138
Crop: Creating a Cropped Copy 139

Movie Recording and Playback 140
Recording Movies 140
Capturing Still Images While Recording Movies 142
Recording Movies in Slow Motion and Fast Motion (HS Movie) 143
Changing Movie Recording Settings 146
Movie Options 148
Open with HS Footage 150
Autofocus Mode 150
Electronic VR 151
Wind Noise Reduction 151
Movie Playback 152
Deleting Movies 152
Editing Movies 153

Connecting to Televisions, Computers and Printers 155
Connecting to a TV 155

Connecting to a Computer 157
Before Connecting the Camera 157
Transferring Images from a Camera to a Computer 158
Charging While Connecting to a Computer 162
Connecting to a Printer 163
Connecting the Camera to a Printer 164
Printing Images One at a Time 165
Printing Multiple Images 166

Basic Camera Setup 169
Setup Menu 169
Welcome Screen 171
Time Zone and Date 172
Monitor Settings 175
Print Date (Imprinting Date and Time) 177
Vibration Reduction 178
Motion Detection 180
AF Assist 181
Digital Zoom 182
Sound Settings 183
Auto Off 184
Format Memory/Format Card 185
Language 186
TV Settings 186
Charge by Computer 187
Blink Warning 188
Reset All 190
Firmware Version 193

Caring for the Camera 194
Maximizing Camera Life and Performance 194
Cleaning 196
Storage 196

Technical Notes and Index 197
Optional Accessories 197
Approved Memory Cards 198
File and Folder Names 199
Error Messages 200
Troubleshooting 205
Specifications 212
Supported Standards 215
Index 216

About This Manual

Thank you for your purchase of a Nikon COOLPIX S9100 digital camera. This manual was written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it.

Symbols and Conventions

To make it easier to find the information you need, the following symbols and conventions are used:

This icon marks cautions, information that should be read before use, to prevent damage to the camera.

This icon marks tips, additional information that may be helpful when using the camera.

This icon marks notes, information that should be read before using the camera.

This icon indicates that more information is available elsewhere in this manual.

Notations

- Secure Digital (SD) memory card, SDHC memory card, and SDXC memory card are referred to as "memory card."
- The setting at the time of purchase is referred to as the "default setting."
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed on a computer monitor appear in bold.

Screen Samples

In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.

Illustrations and Screen Display

Illustrations and text displays shown in this manual may differ from actual display.

Internal Memory and Memory Cards

Pictures taken with this camera can be stored in the camera's internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback, and format operations will apply only to the pictures on the memory card. The memory card must be removed before the internal memory can be formatted or accessed for picture storage, deletion, or viewing.

Life-Long Learning

As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following sites:

- For users in the U.S.A.: *http://www.nikonusa.com/*
- For users in Europe and Africa: *http://www.europe-nikon.com/support/*
- For users in Asia, Oceania, and the Middle East: *http://www.nikon-asia.com/*

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. Visit the site below for contact information:

http://imaging.nikon.com/

Use Only Nikon Brand Electronic Accessories

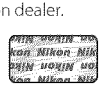
Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery charger, batteries, Charging AC Adapter, and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY.

The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

Holographic seal: Identifies this device as an authentic Nikon product.



Before Taking Important Pictures

Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

About the Manuals

- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Notice Concerning Prohibition of Copying or Reproduction

Note that simply being in possession of material that was digitally copied or reproduced by means of a scanner, digital camera or other device may be punishable by law.

- **Items prohibited by law from being copied or reproduced**

Do not copy or reproduce paper money, coins, securities, government bonds or local government bonds, even if such copies or reproductions are stamped "Sample." The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited. Unless the prior permission of the government was obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited.

The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited.

- **Cautions on certain copies and reproductions**

The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards and tickets, such as passes and meal coupons.

- **Comply with copyright notices**

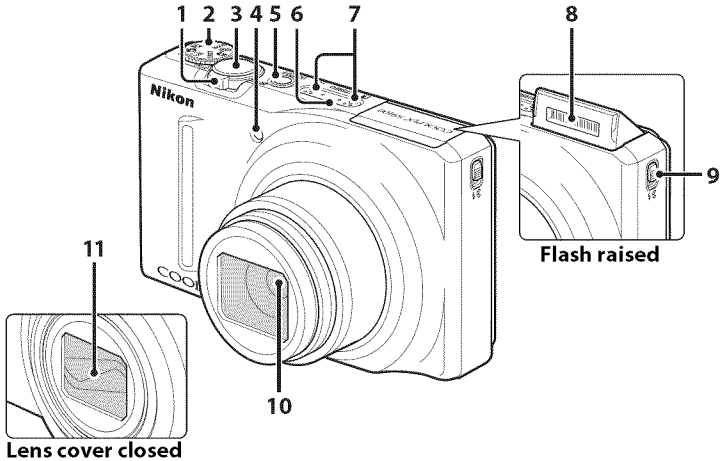
The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the **Select an image** option in the **Welcome screen** setting (🕮 171). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.

The Camera Body



1 Zoom control 27
W : wide 27
T : tele 27
: thumbnail playback 94, 96
: playback zoom 97
: help 61

2 Mode dial 45

3 Shutter-release button 9, 28

4 Self-timer lamp 35
AF-assist illuminator 181

5 Power switch/power-on lamp 19, 184

6 Speaker 126, 152

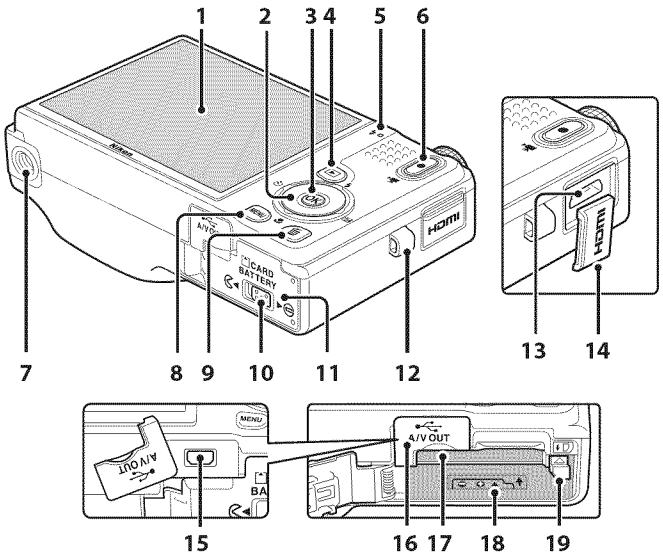
7 Microphone (stereo) 125, 140

8 Flash 32

9 (flash pop-up) control 32

10 Lens 196, 212

11 Lens cover



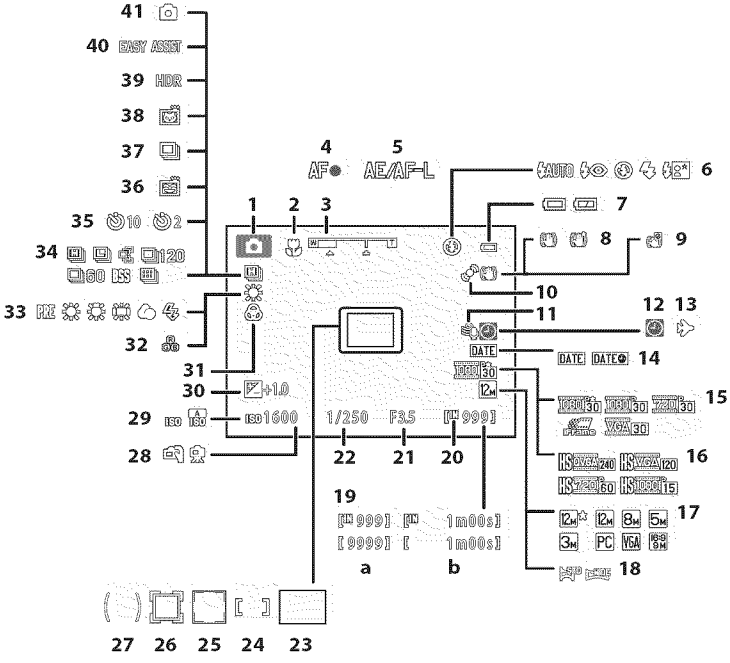
1 Monitor 6, 25
2 Rotary multi selector 11
3 ⓞ (apply selection) button 11
4 ▶ (playback) button 10, 30, 89
5 Charge lamp 17, 162
Flash lamp 34
6 ● (movie-record) button 10, 140
7 Tripod socket 213
8 MENU button 12, 46, 99, 116, 146, 170
9 🗑 (delete) button 31, 126, 152
10 Cover latch 14, 22
11 Battery-chamber/ memory card slot cover 14, 22
12 Eyelet for camera strap 13
13 HDMI mini connector 155
14 HDMI connector cover 155
15 USB/audio/video output connector 16, 155, 158, 164
16 Connector cover 16, 155, 158, 164
17 Memory card slot 22
18 Battery chamber 14
19 Battery latch 14, 15

The Monitor

The following indicators may appear in the monitor during shooting and playback (actual display varies with current camera settings).

The indicators that appear in the monitor during shooting and playback disappear after a few seconds (175).

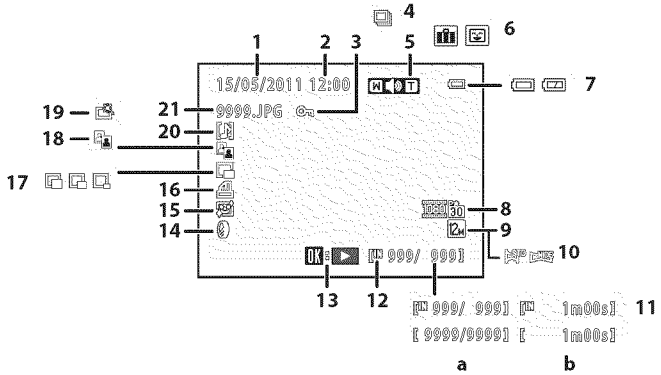
Shooting



1 Shooting mode*.....24, 58, 61, 80
2 Macro mode.....39
3 Zoom indicator.....27, 39
4 Focus indicator.....28
5 AE/AF-L indicator.....79
6 Flash mode.....32
7 Battery level indicator.....24
8 Vibration reduction icon.....25, 178
9 Electronic vibration reduction icon.....140, 146
10 Motion detection icon.....180
11 Wind noise reduction.....151
12 "Date not set" indicator.....172, 200
13 Travel destination icon.....172
14 Print date.....177
15 Movie options (normal speed movies).....148
16 Movie options (HS movies).....148
17 Image mode.....47
18 Easy panorama.....75
19 (a) Number of exposures remaining (still images).....24
(b) Movie length.....140, 149
20 Internal memory indicator.....25
21 Aperture.....28
22 Shutter speed.....28
23 Focus area (auto).....28, 53
24 Focus area (for manual or center).....53
25 Focus area (face detection, pet detection).....28, 53
26 Focus area (subject tracking).....58
27 Center-weighted metering area.....51
28 Hand-held/tripod.....64, 65
29 ISO sensitivity.....34, 52
30 Exposure compensation value.....43, 44
31 Vividness.....43
32 Hue.....43
33 White balance.....49
34 Continuous shooting mode.....80
35 Self-timer.....35
36 Smile timer.....37
37 Continuous (pet portrait mode).....74
38 Pet portrait auto release.....74
39 Backlighting (HDR).....66
40 Panorama.....73
41 Still image capture (movie recording).....142

* The icon displayed varies with the shooting mode.

Playback



1	Date of recording	20
2	Time of recording	20
3	Protect icon	122
4	Sequence display	92, 95
5	Volume indicator	126, 152
6	Album icon in favorite pictures mode[1] Category icon in auto sort mode[1]	103 109
7	Battery level indicator	24
8	Movie options[2]	148
9	Image mode[2]	47, 142
10	Easy panorama	77
11	(a) Current frame number/ total number of frames (b) Movie length	30 152
12	Internal memory indicator	30
13	Easy panorama playback guide Sequence playback guide Movie playback guide	77 92 152
14	Filter effects icon	135
15	Skin softening icon	134
16	Print order icon	117
17	Small picture icon	138
18	D-Lighting icon	133
19	Quick retouch icon	132
20	Voice memo indicator	126
21	File number and type	199

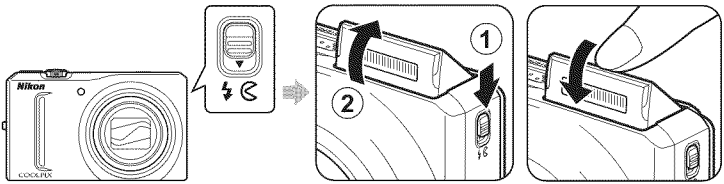
[1] The icon for the selected album or the selected category in auto sort mode in playback mode is displayed.

[2] The icon displayed varies with the setting that was set at the time of shooting.

Raising and Lowering the Flash (ϟ ⊂ Flash Pop-up Control)

Slide the ϟ ⊂ (flash pop-up) control (①) to make the flash pop up (②).

- See "Using the Flash" (🕮 32) for more information on setting the flash.
- If the flash will not be used, gently lower the flash until it clicks into place.



The Shutter-release Button

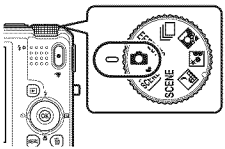
The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. When the shutter-release button is pressed halfway, focus and exposure (shutter speed and aperture value) are set. Focus and exposure remain locked while the shutter-release button is pressed halfway.

While the shutter-release button is held in this position, release the shutter and take a picture by pressing the shutter-release button the rest of the way down. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred images.

Press halfway to set focus and exposure

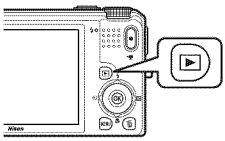
Press the rest of the way down to take a picture

Mode Dial



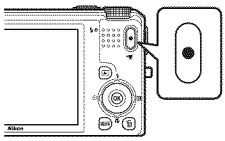
Rotate the mode dial to the desired icon to switch to the corresponding shooting mode (📖 45).

The ▶ (Playback) Button



- Press the ▶ button in shooting mode to enter playback mode.
- When the camera is in shooting mode, press the ▶ button to switch to playback mode.
- When the camera is off, holding down the ▶ button will turn the camera on in playback mode.

The ● (Movie-record) Button

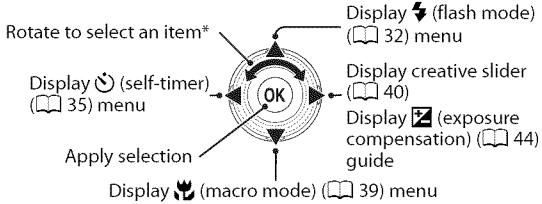


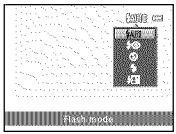
- Press the ● (Movie-record) button in shooting mode to start movie recording (📖 140). Press the ● (Movie-record) button again to stop movie recording.
- Press the ● (Movie-record) button in playback mode to enter shooting mode.

The Rotary Multi Selector

Rotate the rotary multi selector, press its upper (▲), lower (▼), left (◀), or right side (▶), or press the (OK) button.

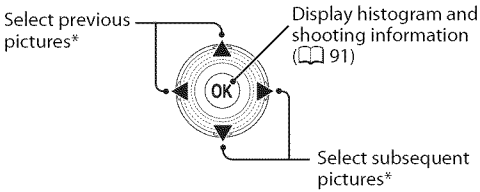
Shooting

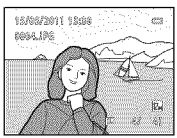

Rotate to select an item*
Display (flash mode) (□ 32) menu
Display creative slider (□ 40)
Display (exposure compensation) (□ 44) guide
Display (macro mode) (□ 39) menu
Display (self-timer) (□ 35) menu
Apply selection
OK

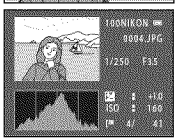


* Items can also be selected by pressing the rotary multi selector up or down.

Playback

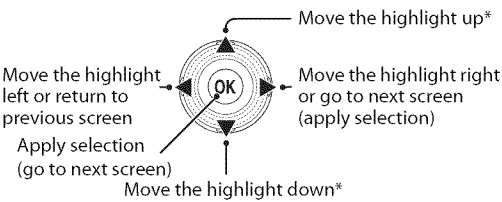


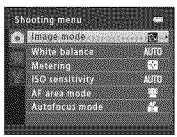




* Previous or subsequent pictures can also be selected by rotating the rotary multi selector.

Menu Screen


Move the highlight up*
Move the highlight left or return to previous screen
Move the highlight right or go to next screen (apply selection)
Apply selection (go to next screen)
Move the highlight down*
OK



* The highlight can also be moved by rotating the rotary multi selector.

Using Camera Menus

Press the **MENU** button (📖 5) to display the menu for the selected mode.

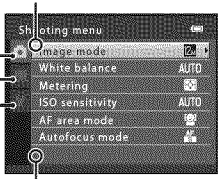
Use the rotary multi selector (📖 11) to navigate the menus.

△ is displayed when previous menu items are available.

Tab for the menus available in the current shooting mode/ tab for playback mode menu

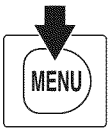
Tab for movie menu (during shooting mode)/playback menu (during playback mode)

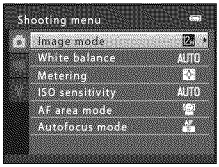
Tab for displaying the setup menu



▽ is displayed when there are one or more menu items to follow.

1 Press the **MENU** button.

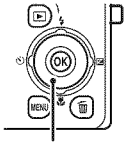




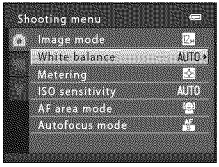
2 Press the rotary multi selector ▲ or ▼ to choose an item, and then press ▶ or the ⓞ button.

Items can also be chosen by rotating the rotary multi selector (📖 11).

To change tabs, press ◀ (📖 13).

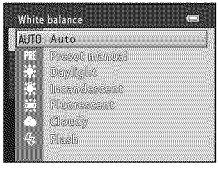


Rotary multi selector



3 Press ▲ or ▼ to choose an item and press the ⓞ button.

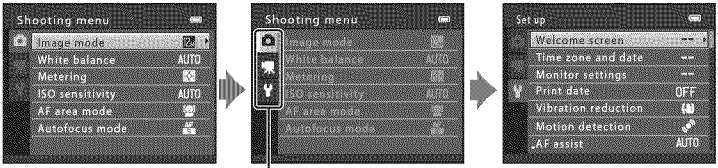
The setting is applied.



4 When setting is finished, press the **MENU** button.

The camera exits the menu display.

Switching Between the Tabs on Menu Screens

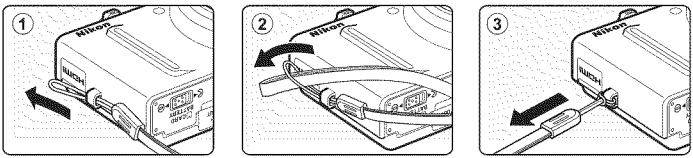


Press the rotary multi selector ◀ to highlight the tab

Press the rotary multi selector ▲ or ▼ to select a tab, and press either the ⓞ button or ▶

The selected menu is displayed

Attaching the Camera Strap

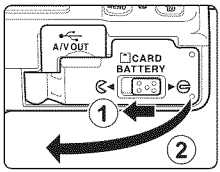


Inserting the Battery

Insert a Rechargeable Li-ion Battery EN-EL12 (supplied) into the camera.

- Charge the battery before the first use or when the battery is running low (16).

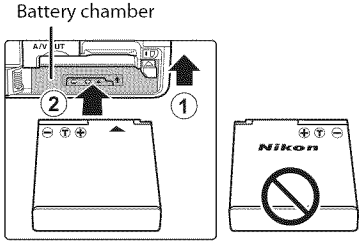
1 Open the battery-chamber/memory card slot cover.



2 Insert the battery.

Use the battery to lift the orange battery latch in the direction indicated by the arrow (①) and fully insert the battery (②).

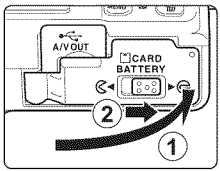
When the battery is fully inserted, the battery latch will lock it in place.



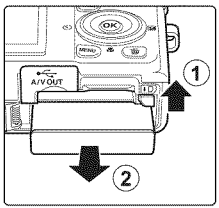
Inserting the Battery

Inserting the battery upside down or backwards could damage the camera. Be sure to check that the battery is in the correct orientation.

3 Close the battery-chamber/memory card slot cover.



Removing the Battery



Turn the camera off (19) and be sure that the power-on lamp and the monitor have turned off before opening the battery-chamber/memory card slot cover.

To eject the battery, open the battery-chamber/memory card slot cover and slide the orange battery latch in the direction indicated by the arrow (①). The battery can then be removed by hand (②).

- The camera, battery, or memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

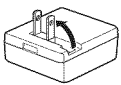
Notes on the Battery

- Be sure to read and follow the warnings for the battery on page iii and the section, "The Battery" (195), before use.
- If the battery will not be used for an extended period, recharge it at least once every six months and run it flat before returning it to storage.

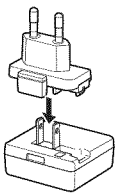
Charging the Battery

Charge the supplied Rechargeable Li-ion Battery EN-EL12 inserted into the camera, by connecting the supplied Charging AC Adapter EH-69P to the camera via the supplied USB Cable UC-E6, and then plugging the Charging AC Adapter into an electrical outlet.

1 Prepare the Charging AC Adapter EH-69P.



If a plug adapter* is included, attach the plug adapter to the plug on the Charging AC Adapter. Push the plug adapter firmly until it is securely held in place. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product.



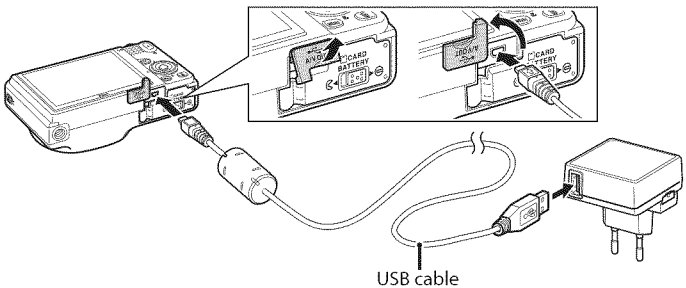
* The shape of the plug adapter varies according to the country or region in which the camera was purchased.
The Charging AC Adapter comes with the plug adapter attached in Argentina and Korea.

2 Insert the battery (📖 14).

Do not turn the camera on.

3 Use the supplied USB cable to connect the Charging AC Adapter to the camera.

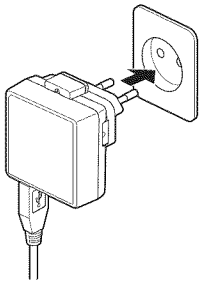
Be sure that connectors are properly oriented. Do not attempt to insert connectors at an angle, and do not use force when connecting or disconnecting the USB cable.



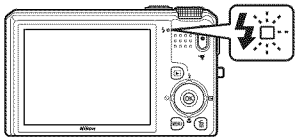
4 Plug the Charging AC Adapter into an electrical outlet.

The charge lamp slowly blinks green to indicate that the battery is charging.

About 3 hours and 50 minutes are required to charge a fully exhausted battery.



The following chart explains charge lamp status when the camera is plugged into the electrical outlet.



Charge lamp	Description
Blinks slowly (green)	Battery charging.
Off	Battery not charging. When charging is complete, the charge lamp stops blinking green and turns off.
Flickers (green)	• The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F). • The USB cable or Charging AC Adapter is not properly connected, or there is a problem with the battery. Disconnect the USB cable or unplug the Charging AC Adapter and correctly connect it again, or change the battery.

5 Disconnect the Charging AC Adapter from the electrical outlet and then disconnect the USB cable.

Notes on Charging AC Adapter

- The Charging AC Adapter EH-69P is for use only with compatible devices. Do not use with another make or model of device.
- Be sure to read and follow the warnings for the Charging AC Adapter on page iii and the section, "The Battery" (📖 195), before use.
- The EH-69P is compatible with AC 100-240 V, 50/60 Hz electrical outlets. When using in other countries, use a plug adapter (commercially available) as necessary. For more information about plug adapters, consult your travel agency.
- The Charging AC Adapter EH-69P is for charging the battery inserted into the camera. When the camera is connected to an electrical outlet with the Charging AC Adapter EH-69P, the camera cannot be turned on.
- Do not, under any circumstances, use another make or model of USB-AC adapter other than Charging AC Adapter EH-69P. Failure to observe this precaution could result in overheating or in damage to the camera.

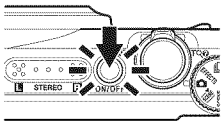
AC Power Source

- If the AC Adapter EH-62F (available separately; 📖 197) is used, power is supplied to the camera from an electrical outlet and taking pictures and playing back images are available with this camera.
- Do not, under any circumstances, use another make or model of AC adapter other than EH-62F. Failure to observe this precaution could result in overheating or in damage to the camera.

Charging Using Computer or Battery Charger

- Connecting the COOLPIX S9100 to a computer also charges the Rechargeable Li-ion Battery EN-EL12 (📖 157, 187).
- The EN-EL12 can be charged without using the camera by using the Battery Charger MH-65 (available separately; 📖 197).

Turning On and Off the Camera



Press the power switch to turn on the camera. The power-on lamp (green) will light, and then the monitor will turn on (the power-on lamp turns off when the monitor turns on). To turn off the camera, press the power switch again. When the camera is turned off, the power-on lamp and the monitor will turn off.

- If the camera is turned off, hold down the ▶ button to turn the camera on in playback mode (📖 30).

Power Saving Function (Auto Off)

If no operations are performed for a while, the monitor will turn off, the camera will enter standby mode, and the power-on lamp will blink. If no operations are performed for another three minutes, the camera will turn off automatically.

When the power-on lamp is blinking, the following operations will turn the monitor back on.

- Pressing the power switch, shutter-release button, ▶ button, or ● (movie-record) button
- Rotating the mode dial

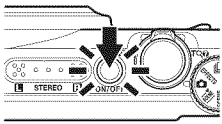
- In shooting or playback mode, the camera will enter standby mode in about one minute (default setting).
- The time allowed to elapse before the camera enters standby mode can be changed from the **Auto off** option (📖 184) in the setup menu (📖 169).

Setting Display Language, Date, and Time

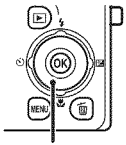
When the first time the camera is turned on, the language-selection screen and the date and time setting screen for the camera clock are displayed.

1 Press the power switch to turn on the camera.

The power-on lamp (green) will light, and then the monitor will turn on (the power-on lamp turns off when the monitor turns on).



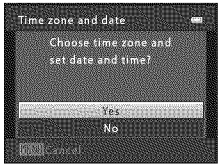
2 Press the rotary multi selector ▲ or ▼ to choose the desired language and press the ⓞ button.



Rotary multi selector

3 Press ▲ or ▼ to choose **Yes** and press the ⓞ button.

To cancel the setting the time zone and date, select **No**.



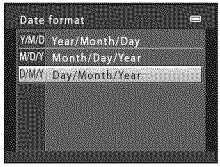
4 Press ◀ or ▶ to choose your home time zone (🕮 174) and press the ⓞ button.

Daylight Saving Time

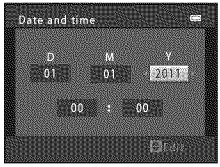
If daylight saving time is in effect, press ▲ to enable the daylight saving time function while setting the region in step 4.

When the daylight saving time function is enabled, is displayed at the top of the monitor. Press ▼ to disable the daylight saving time function.

5 Press ▲ or ▼ to choose the date format and press the ⓞ button.



6 Press ▲, ◀, ▼, or ▶ to set the date and time, and press the ⓞ button.



Choose an item: Press ▶ or ◀ (changes between **D**, **M**, **Y**, **hour**, and **minute**).

Edit the highlighted item: Rotate the rotary multi selector or press ▲ or ▼.

Apply the setting: Select the minute setting and press the ⓞ button or ▶.

When settings are finished, the lens extends and the camera switches to shooting mode.

Print Date and Changing the Date and Time

- To imprint the date on images while taking pictures, enable print date from the **Print date** option (📖 177) in the setup menu (📖 169) after the date and time have been set.
- To change the camera's date and time setting, select **Time zone and date** (📖 172) in the setup menu (📖 169).

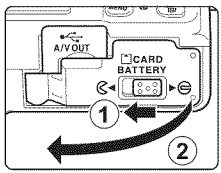
Inserting Memory Cards

Data is saved in the camera's internal memory (approximately 74 MB) or on removable Secure Digital (SD) memory cards (commercially available; 198).

If a memory card is inserted in the camera, data are automatically saved on the memory card and data saved to the memory card can be played back, deleted, or transferred. Remove the memory card to save data in the internal memory, or play back, delete, or transfer data from the internal memory.

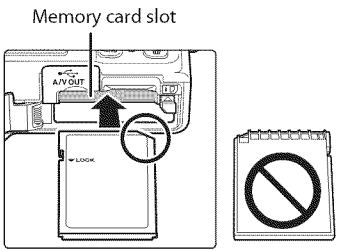
1 Be sure that the power-on lamp and the monitor are off and open the battery-chamber/memory card slot cover.

Be sure to turn off the camera before opening the cover.



2 Insert the memory card.

Slide the memory card in until it clicks into place.



Inserting Memory Cards

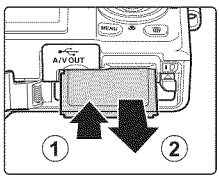
Inserting the memory card upside down or backwards could damage the camera or the memory card. Be sure to check that the memory card is in the correct orientation.

3 Close the battery-chamber/memory card slot cover.

Removing Memory Cards

Turn the camera off and be sure that the power-on lamp and the monitor have turned off before opening the battery-chamber/memory card slot cover.

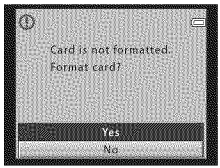
Press the card in (①) to partially eject the card, then remove the card by hand while being careful not to remove the card at an angle (②).



- The camera, battery, or memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card.

Formatting Memory Cards

If the message on the right is displayed when the camera is turned on, the memory card must be formatted before use (185). Note that ***formatting permanently deletes all images and other data on the memory card.*** Be sure to make copies of any images you wish to keep before formatting the memory card.



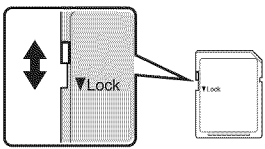
When formatting the memory card, use the rotary multi selector to choose **Yes** and press the OK button. The confirmation dialog will be displayed. To start formatting, choose **Format** and press the OK button.

- Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete.
- Be sure to use this camera to format memory cards previously used in other devices the first time they are inserted into the COOLPIX S9100 (185).

Note on the Write Protect Switch

When memory card switch is in the lock position, data cannot be written to, or deleted from, the memory card. If the switch is in the lock position, unlock it by sliding the switch to the write position to save or delete images, or to format the memory card.

Write protect switch



Notes on Memory Cards

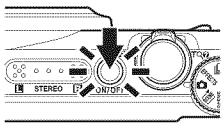
- Use only Secure Digital memory cards.
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
  - Remove the battery or memory card
  - Turn off the camera
  - Disconnect the AC adapter
- Do not format the memory card using a computer.
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shock.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight, closed vehicles, or areas exposed to high temperatures.
- Do not expose to humidity, dust, or corrosive gases.

Step 1 Turn the Camera On and Select (Auto) Mode

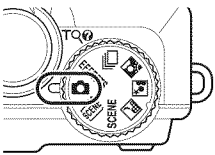
This section describes taking pictures in (auto) mode, an automatic, "point-and-shoot" mode recommended for first-time users of digital cameras.

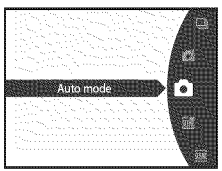
1 Press the power switch to turn on the camera.

The lens extends and the monitor turns on.



2 Rotate the mode dial to .



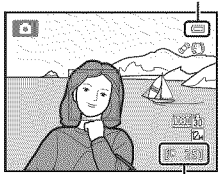


3 Check the battery level indicator and the number of exposures remaining.

Battery Level Indicator

Display	Description
	Battery level high.
	Battery level low. Prepare to charge or replace the battery.
Battery exhausted.	Cannot take pictures. Charge or replace the battery.

Battery level indicator



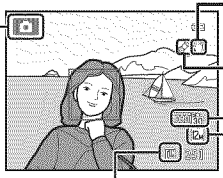
Number of exposures remaining

Number of Exposures Remaining

The number of pictures that can be taken is displayed.

The number of images that can be saved depends on the capacity of the internal memory or memory card and the image mode setting (47).

Indicators Displayed in (Auto) Mode



Vibration reduction icon
Vibration reduction can be applied to reduce the effects of camera shake.

Shooting mode
displayed in (auto) mode.

Motion detection icon
The effects of subject movement and camera shake are reduced.

Movie options
A movie option is displayed for movie recording (140, 148).

Internal memory indicator
Indicates that images will be saved on the camera's internal memory (approximately 74 MB). When a memory card is inserted in the camera, does not appear and images will be saved on the memory card.

Image mode
The combination of image quality (compression) and image size is displayed. The default setting is 4000 × 3000.

- The indicators and photo info displayed during shooting and playback will turn off after a few seconds (175).
- When the monitor has turned off in standby mode to save power (the power-on lamp is blinking) (184), press the following buttons to turn it back on.
  → Power switch, shutter-release button, or ● (movie-record) button

Flash

When the flash is lowered, the flash setting is fixed at off and appears at the top of the monitor. In situations where flash is needed, such as in dark locations or when the subject is backlit, be sure to raise the flash (4, 32).

Functions Available in (Auto) Mode

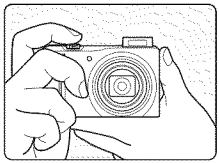
- The flash mode (32) can be adjusted, the self-timer (35) and macro mode (39) can be applied.
- Brightness (exposure compensation), vividness, and hue can be adjusted with the creative slider (40).
- Press the MENU button to specify settings for all shooting menu items (46) according to shooting conditions. The combination of image quality (compression) and image size can be set by using the **Image mode** option in the shooting menu.

Vibration Reduction and Motion Detection

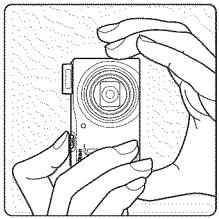
- See **Vibration reduction** (178) and **Motion detection** (180) in the setup menu (169) for more information.
- Set **Vibration reduction** to **Off** when using a tripod to stabilize the camera during shooting.

1 Use both hands and ready the camera.

Keep fingers, hair, the camera strap, and other objects away from the lens, flash, AF assist-illuminator, microphone, and speaker.

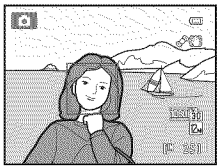


When using the flash (📖 32) while taking pictures in portrait (tall) orientation, turn the camera so that the flash is above the lens.



2 Frame the picture.

When the camera detects a human face, that face is framed by a yellow double border (focus area) (default setting).



Up to 12 faces can be detected. When the camera detects more than one face, the face closest to the camera is framed by a double border and the others by single borders.

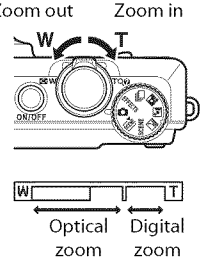
When shooting non-human subjects or when no faces are detected, the focus area is not displayed. Position the main subject near the center of the frame.

Using the Zoom

Use the zoom control to activate optical zoom. Rotate the zoom control toward **T** to zoom in, increasing the size of the subject. Rotate the zoom control toward **W** to zoom out, increasing the area visible in the frame.

Rotating the zoom control all the way in either direction will adjust the zoom quickly, while rotating the control partially will adjust the zoom slowly.

- When the camera is turned on, the zoom is at the maximum wide-angle position.
- A zoom indicator is displayed at the top of the monitor when the zoom control is rotated.



Digital Zoom

When the camera is zoomed in to the maximum optical zoom position, rotating and holding the zoom control at **T** triggers digital zoom.

Digital zoom can magnify the subject up to about 4× beyond the maximum magnification of the optical zoom.

Maximum optical zoom Digital zoom enabled

- The camera focuses at the center of the frame and the focus area is not displayed when digital zoom is in effect.

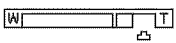
Digital Zoom and Interpolation

Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of picture quality according to the image mode (📖 47) and digital zoom magnification.

Interpolation is applied at zoom positions beyond ⏏ when taking still images.

When zoom is increased beyond the ⏏ position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied.

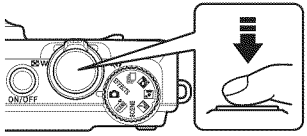
The position of ⏏ moves to the right as image size decreases, allowing for confirmation of the zoom positions at which shooting without interpolation is possible at the current image mode setting.



Small image size

- Digital zoom can be disabled from the **Digital zoom** option (📖 182) in the setup menu (📖 169).

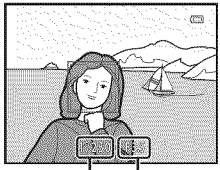
1 Press the shutter-release button halfway.



When the shutter-release button is pressed halfway (📖 9), the camera sets focus and exposure (shutter speed and aperture value). Focus and exposure remain locked while the shutter-release button is pressed halfway.

When a face is detected:

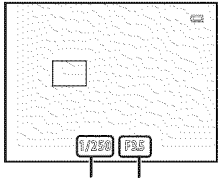
- The camera focuses on the face framed by the double border. When the subject is in focus, the double border glows green.



Shutter speed Aperture

When a face is not detected:

- The camera has nine focus areas, and automatically selects the focus areas containing the subject closest to the camera. When the subject is in focus, the focus areas that are in focus (up to nine areas) glow green.

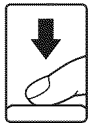


Shutter speed Aperture

The camera focuses at the center of the frame and the focus area is not displayed when digital zoom is in effect. Once focus has been acquired, the focus indicator (📖 6) glows green.

While the shutter-release button is pressed halfway, the focus area or focus indicator may blink red. This indicates that the camera is unable to focus. Modify the composition and press the shutter-release button halfway again.

2 Press the shutter-release button the rest of the way down.



The shutter is released and the image will be saved to the memory card or internal memory.

Note on Saving Images

While images are being saved, the number of exposures remaining will blink. ***Do not open the battery-chamber/memory card slot cover*** while images are being saved. Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card.

Autofocus

Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the focus area or the focus indicator glows green:

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun is behind the subject and the subject is in deep shadow)
- No contrast between the subject and surroundings (e.g. when the subject is wearing a white shirt and is standing in front of a white wall)
- Subject contains objects of varying distances from the camera (such as a cage with an animal inside)
- Subjects with repeating patterns (window blinds, buildings with multiple rows of similarly shaped windows, etc.)
- Subject is moving rapidly

In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject positioned at the same distance from the camera as the actual desired subject, and use focus lock (📖 55).

Note on Face Detection

See "AF Area Mode" (📖 53) or "Face Detection" (📖 56) for more information.

When the Subject Is Close to the Camera

If the camera cannot focus, try shooting with macro mode (📖 39) or the **Close-up** scene mode (📖 70).

AF-assist Illuminator and Flash

If the subject is dimly lit, the AF-assist illuminator (📖 181) may light when the shutter-release button is pressed halfway, or the flash (📖 32) may fire when the shutter-release button is pressed all the way down.

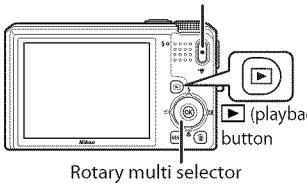
Playing Back Images (Playback Mode)

Press the ▶ (playback) button.

The last image captured will be displayed in full-frame playback mode.

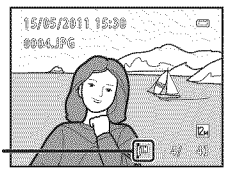
Rotate the rotary multi selector, or press ▲, ▼, ◀, or ▶ to view previous or next images (📖 11).

Images may be displayed briefly at low resolution while being read from the memory card or internal memory.



To return to shooting mode, press the ▶ button, shutter-release button, or ● (movie-record) button.

When playing back images saved in the camera's internal memory, IN is displayed. When a memory card is inserted in the camera, IN is not displayed and images saved on the memory card are played back.



When the Monitor Has Turned Off to Save Power

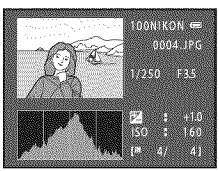
When the power-on lamp is blinking, press the power switch, shutter-release button, ▶ button, or ● (movie-record) button to turn the monitor back on (📖 184).

Operations Available in Playback Mode

See "More on Playback" (📖 89) or "Editing Images" (📖 130) for more information.

Displaying Shooting Information

Press the ⊛ button in full-frame playback mode to display the highlight, histogram, and shooting information (📖 91). Press the ⊛ button again to return to full-frame playback mode.



Pressing the ▶ Button to Turn On the Camera

When the camera is off, holding down the ▶ button will turn the camera on in playback mode. The lens will not extend.

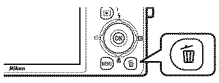
Viewing Images

- When images in which the face of a person or a pet was detected at the time of shooting (📖 56, 74) are displayed in full-frame playback mode, depending upon the orientation of the detected face, the images may be automatically rotated for playback display (except images captured continuously with the **Pet portrait** scene mode (📖 74) or images captured with continuous shooting mode (📖 80)).
- For images captured with the continuous shooting feature, each series of images is treated as a group, and only the group's "key picture" is displayed (sequence display → 📖 92).

Deleting Unwanted Images

1 Press the 🗑 button to delete the image currently displayed in the monitor.

To exit without deleting, press the **MENU** button.



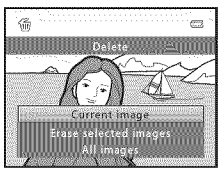
2 Press the rotary multi selector ▲ or ▼ to choose the desired deletion method and press the Ⓚ button.

Current image: Only the current image or voice memo (📖 126) is deleted. If the key picture of a sequence group (📖 92) is selected, all images in the group are deleted.

Erase selected images: Multiple images can be selected and deleted.

→ "Operating the Erase Selected Images Screen"

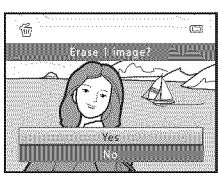
All images: All images are deleted.



3 Press ▲ or ▼ to choose **Yes** and press the Ⓚ button.

Deleted images cannot be recovered.

To cancel, press ▲ or ▼ to select **No** and press the Ⓚ button.



Operating the Erase Selected Images Screen

1 Press the rotary multi selector ◀ or ▶ to choose an image to be deleted and press ▲ to add ✓ to the image and mark it for deletion.

To undo the selection, press ▼ to remove ✓.

Rotate the zoom control (📖 4) to **T** (🔍) to switch back to full-frame playback or **W** (▦) to display thumbnails.

2 Add ✓ to all desired images and then press the Ⓚ button to confirm the selection.

A confirmation dialog is displayed. Follow the instructions displayed in the monitor.

Notes on Deletion

- Deleted images cannot be restored. Transfer important images to a computer before deleting them.
- Protected images cannot be deleted (📖 122).
- Deleting images captured with the continuous shooting feature → "Deleting Images in a Sequence" (📖 93)

Deleting the Last Image Captured While in Shooting Mode

In shooting mode, press the 🗑 button to delete the last image captured.

Using the Flash

When the flash is needed, such as when the subject is dimly lit or when there is backlighting, pop the flash up. The flash mode can be set to match the shooting conditions.

- When **ISO sensitivity** is set to **Auto**, the flash has a range of 0.5-4.0 m (1 ft. 8 in.-13 ft.) at the maximum wide-angle zoom position and a range of 1.5-2.5 m (5 ft.-8 ft. 2 in.) at the maximum telephoto zoom position.

Auto

Flash fires automatically when lighting is dim.

Auto with red-eye reduction

Reduce "red-eye" in portraits.

Off

Flash will not fire even when lighting is dim.

Fill flash

Flash fires whenever a picture is taken. Use to "fill-in" (illuminate) shadows and backlit subjects.

Slow sync

Auto flash mode is combined with slow shutter speed.
Suited to evening and night portraits that include background scenery.
Flash illuminates main subject; slow shutter speeds are used to capture background at night or under dim lighting.

Red-eye Reduction

This camera uses **advanced red-eye reduction** (In-Camera Red-Eye Fix). Pre-flashes are fired repeatedly at low intensity before the main flash, reducing the red-eye effect. Additionally, if the camera detects red eye while saving an image, the affected area will be processed to reduce red-eye before the image is saved.

Note the followings when shooting.

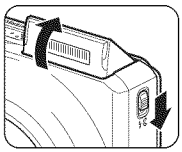
- Because pre-flashes are fired, there is a slight lag between when the shutter-release button is pressed and when the shutter is released.
- More time than usual is required to save images.
- Red-eye reduction may not produce the desired results in some situations.
- In extremely rare instances, areas not subject to red-eye may be affected by red-eye reduction processing; in these cases, choose another flash mode and try again.

Setting the Flash Mode

1 Slide the ↯ ⊂ (flash pop-up) control.

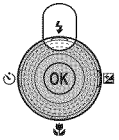
The flash pops up.

When the flash is lowered, the flash mode will be fixed at ⊘ (off).



2 Press the rotary multi selector ↯ (flash mode).

The flash mode menu is displayed.

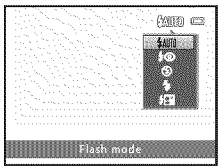


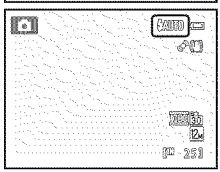
3 Use the rotary multi selector to choose the desired mode and press the ⊛ button.

The icon for the selected flash mode is displayed.

When ↯AUTO (auto) is applied, ↯AUTO is only displayed for a few seconds, regardless of **Photo info** settings (📖 176).

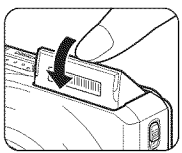
If a setting is not applied by pressing the ⊛ button within a few seconds, the selection will be canceled.





Lowering the Flash

If the flash will not be used, gently lower the flash until it clicks into place.



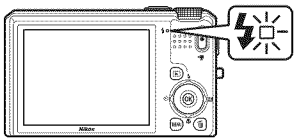
Notes on Shooting When the Flash Is Disabled (⊗) or Lighting Is Dim

- Use of a tripod is recommended to stabilize the camera during shooting. Set **Vibration reduction** (📖 178) to **Off** in setup menu (📖 169) when using a tripod to stabilize the camera.
- ISO may be displayed in the shooting screen. When ISO is displayed, ISO sensitivity is automatically increased.
- The noise reduction function may be activated with some shooting conditions such as dim lighting. More time than usual is required to save images to which noise reduction is applied.

Note on the Flash

When using the flash, reflections from dust particles in the air may appear as bright spots in images. To reduce these reflections, set the flash to ⊗ (off).

The Flash Lamp



The flash lamp indicates flash status when the shutter-release button is pressed halfway.

- On: Flash will fire when picture is taken.
- Blinks: Flash charging. Wait a few seconds and try again.
- Off: Flash will not fire when picture is taken.

If the battery is low, the monitor display will turn off, and remain off, until the flash is fully charged.

The Flash Mode Setting

The default flash mode setting varies with shooting mode (📖 45).

- 📷 (auto): AUTO (auto)
- SCENE (scene auto selector): AUTO (auto). The camera selects the optimum flash mode setting for the scene mode it has selected.
- SCENE: varies with the selected scene mode (📖 67–73)
- 🌃 (night landscape): fixed at ⊗ (off)
- 🌃 (night portrait): fixed at 👁 (auto with red-eye reduction)
- 🌃 (backlighting): fixed at ⚡ (fill flash) (when **HDR** is Off), fixed at ⊗ (off) (when **HDR** is On) (📖 66)
- 🎞 (continuous): fixed at ⊗ (off)
- EFFECTS (special effects): AUTO (auto)

The flash cannot be used simultaneously with certain functions. See "Camera Settings that Cannot Be Applied Simultaneously" (📖 87) for more information.

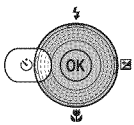
The flash mode setting applied in 📷 (auto) mode is saved in the camera's memory even after the camera is turned off.

Taking Pictures with the Self-timer

The self-timer is useful for self-portraits or reducing the effects of camera shake that occur when the shutter-release button is pressed. The timer can be set to ten or two seconds. When using the self-timer, use of a tripod is recommended. Set **Vibration reduction** (📖 178) to **Off** in the setup menu (📖 169) when using a tripod to stabilize the camera during shooting.

1 Press the rotary multi selector ⏲ (self-timer).

The self-timer menu is displayed.

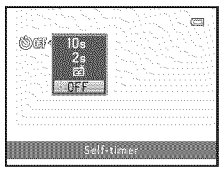


2 Use the rotary multi selector to choose **10s** or **2s** and press the ⓞ button.

10s (ten seconds): Use on important occasions, such as weddings.

2s (two seconds): Use to prevent camera shake.

When 🙂 is selected, the camera uses face detection to detect a human face, and then automatically releases the shutter when a smile is detected (📖 37).



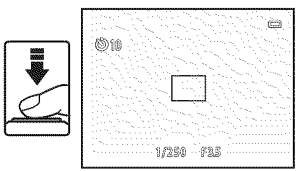
When the shooting mode is the **Pet portrait** scene mode, 🐾 (Pet portrait auto release) is displayed (📖 74). The self-timer settings **10s** and **2s** cannot be used.

The mode selected for self-timer is displayed.

If a setting is not applied by pressing the ⓞ button within a few seconds, the selection will be canceled.

3 Frame the picture and press the shutter-release button halfway.

Focus and exposure will be set.

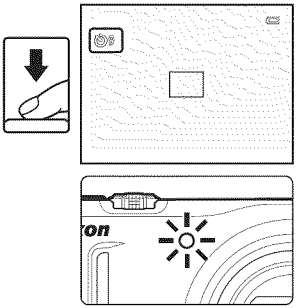


4 Press the shutter-release button the rest of the way down.

The self-timer starts, and the number of seconds remaining before the shutter is released is displayed in the monitor. The self-timer lamp blinks while the timer is counting down. About one second before the shutter is released, the lamp stops blinking and glows steadily.

When the shutter is released, the self-timer will be set to **OFF**.

To stop the timer before a picture is taken, press the shutter-release button again.

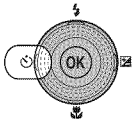


Taking Pictures with the Smile Timer

The camera uses face detection to detect human faces, and then automatically releases the shutter when a smile is detected.

This feature can be used when shooting mode (📖 45) is set to 📷 (auto) mode or the 🌃 (night portrait) or **Portrait** scene mode (📖 61).

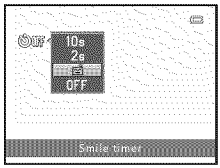
1 Press the rotary multi selector ⏲ (self-timer).



The self-timer menu is displayed.

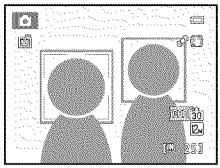
To adjust settings for flash mode, creative slider, exposure compensation, or items in the shooting menu, adjust the settings before pressing ⏲.

2 Use the rotary multi selector to choose 😊 (smile timer) and press the OK button.



If a setting is not applied by pressing the OK button within a few seconds, the selection will be canceled.

3 Frame a picture.



Point the camera at the subject.

When the camera detects a human face, a double border (focus area) is displayed around that face. When focus is acquired on that face, the double border will turn green for a moment and focus is locked.

Up to three faces can be detected. When the camera detects more than one face, the double border (focus area) is displayed around the face closest to the center of the frame, and single borders around the others.

4 The shutter is automatically released.

If the camera detects that the face framed by the double border is smiling, the shutter is automatically released.

Each time the shutter is released, the camera repeats automatic shooting by face detection and smile detection.

5 Finish shooting.

To end automatic shooting by smile detection, either turn off the camera or set the smile timer to **OFF**.

Notes on the Smile Timer

- Digital zoom is not available.
- Under some shooting conditions, the camera may be unable to detect faces or detect smiles.
- See "Notes on Face Detection" (📖 57) for more information.
- This function cannot be used simultaneously with certain functions. See "Camera Settings that Cannot Be Applied Simultaneously" (📖 87) for more information.

Auto Power Off in Smile Timer Mode

When using the smile timer function, the auto off function (📖 184) is activated and the camera turns off when either of the situations indicated below persists and no other operations are performed.

- The camera does not detect any faces.
- The camera detected a face, but cannot detect a smile.

Self-timer Lamp Blinking

When using smile timer, the self-timer lamp blinks slowly when the camera detects a face, and blinks quickly immediately after the shutter is released.

Releasing the Shutter Manually

Pictures can also be taken by pressing the shutter-release button. The camera focuses on the subject at the center of the frame when faces are not detected.

More Information

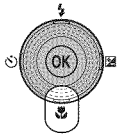
See "Autofocus" (📖 29) for more information.

Macro Mode

Macro mode is used for taking pictures of objects as close as 4 cm (1.6 in.). Note that the flash may be unable to light the entire subject at distances of less than 50 cm (1 ft. 8 in.).

1 Press the rotary multi selector (macro mode).

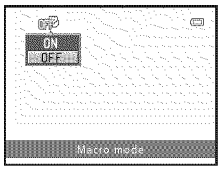
The macro mode menu is displayed.



2 Use the rotary multi selector to choose **ON** and press the OK button.

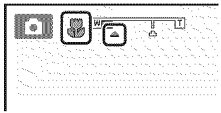
The macro mode icon ( ) is displayed.

If a setting is not applied by pressing the OK button within a few seconds, the selection will be canceled.



3 Rotate the zoom control to the zoom position at which and the zoom indicator glow green.

The closest distance at which the camera can focus varies depending on the zoom position.



When the zoom is at a position where and the zoom indicator glow green (to the left of), the camera can focus on subjects as close as 11 cm (4.4 in.) from the lens. At the maximum wide-angle position, the camera can focus on subjects as close as 4 cm (1.6 in.) from the lens.

Autofocus

When using (auto) mode, if **Autofocus mode** (60) is set to **Full-time AF**, the camera focuses continuously until the shutter-release button is pressed halfway to lock the focus. Therefore, the sound of lens drive movement can be heard.

When using other shooting modes, **Full-time AF** is turned on automatically when macro mode is turned on.

The Macro Mode Setting

(auto) mode and continuous shooting mode share the same macro mode setting. When using (auto) mode or continuous shooting mode, the macro mode setting is saved in the camera's memory even if the camera is turned off.

Adjusting Brightness (Exposure Compensation), Vividness, and Hue

Brightness (exposure compensation), vividness, and hue can be adjusted for taking pictures by pressing the rotary multi selector ▶ (☒). Items that can be set vary by the shooting mode.

When Using 📷 (Auto) Mode (📖 24) or Continuous Shooting Mode (📖 80)

Brightness (exposure compensation), vividness, and hue can be adjusted with the creative slider.

☒ Brightness (Exp. +/–)

Use to brighten or darken the overall image.

Vividness

Vividness adjustment is used to adjust the vividness of the entire image.

Hue

Hue adjustment is used to adjust the hue of the entire image.

See "Operating the Creative Slider" (📖 41) for more information.

When Using Scene Mode (📖 61) or Special Effects Mode (📖 85)

Brightness (exposure compensation) can be adjusted.

☒ Exposure compensation

Use to brighten or darken the overall image.

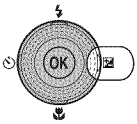
See "Adjusting Exposure Compensation" (📖 44) for more information.

Operating the Creative Slider

When using (auto) mode and (continuous) mode, use the creative slider to adjust brightness (exposure compensation), vividness, and hue for taking pictures.

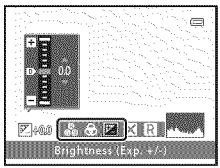
1 Press the rotary multi selector ▶ ( ).

The creative slider screen is displayed.



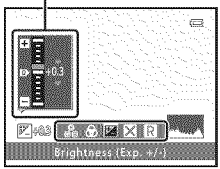
2 Press the rotary multi selector ◀ or ▶ to choose , , or .

The screen for adjusting brightness (exposure compensation), vividness, and hue is displayed.



3 Adjust the brightness, vividness, or hue.

Slider



The rotary multi selector is used as follows.

- ▲▼: The slider moves. The effect can be adjusted while confirming the results in the monitor. The effect can also be adjusted by rotating the rotary multi selector.
- ◀ ▶: Switches between brightness (exposure compensation), vividness, and hue.

For more information on each item, see the following.

- "Adjusting Brightness (Exposure Compensation)" (📖 43)
- "Adjusting Vividness (Saturation Adjustment)" (📖 43)
- "Adjusting Hue (White Balance Adjustment)" (📖 43)

To turn off the effects of the creative slider, press ◀ or ▶ to choose R, and press the ⓚ button.

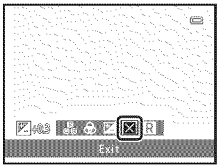
4 When adjustment is complete, press ◀ or ▶ to choose ☒ and press the ⓞ button.

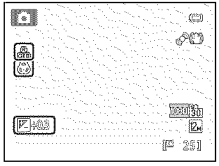
If the ⓞ button (except when R is selected) or the shutter-release button is pressed in step 3, the selected amount of effect is applied. When the effect is applied, the camera returns to the shooting screen.

If brightness is adjusted, ± and the compensation value are displayed.

If vividness is adjusted, is displayed.

If hue is adjusted, is displayed.





5 Press the shutter-release button to take a picture.

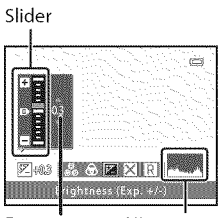
Creative Slider Settings

(auto) mode and continuous shooting mode share the same settings for brightness (exposure compensation), vividness, and hue; these settings are saved in the camera's memory even when the camera is turned off.

Adjusting Brightness (Exposure Compensation)

Adjust the overall brightness of the image.

- To make the subject brighter, move the slider toward "+".
- To make the subject darker, move the slider toward "–".



Using the Histogram

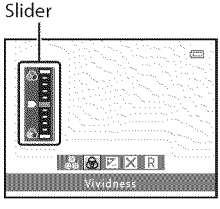
A histogram is a graph showing the distribution of tones in the image. Use as a guide when using exposure compensation and shooting without the flash.

- The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels.
- Increasing exposure compensation shifts tone distribution to the right, and decreasing it shifts tone distribution to the left.

Adjusting Vividness (Saturation Adjustment)

Adjust the overall vividness of the image.

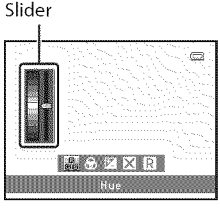
- Vividness increases as the slider is moved up. Vividness decreases as the slider is moved down.



Adjusting Hue (White Balance Adjustment)

Adjust the overall hue of the image.

- The overall image becomes more reddish as the slider is moved up. The overall image becomes more bluish as the slider is moved down.



Note on White Balance Adjustment

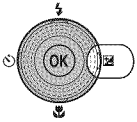
When hue is adjusted using the creative slider, **White balance** in the shooting menu (📖 49) cannot be set.

Adjusting Exposure Compensation

When using scene mode or special effects mode, brightness (exposure compensation) can be adjusted for taking pictures.

1 Press the rotary multi selector ☒ (exposure compensation).

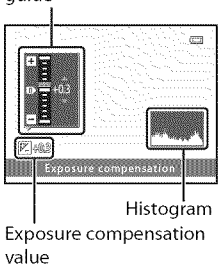
The exposure compensation guide and histogram are displayed.



2 Use the rotary multi selector to select a compensation value.

To make the subject brighter, apply positive (+) exposure compensation.

To make the subject darker, apply negative (–) exposure compensation.

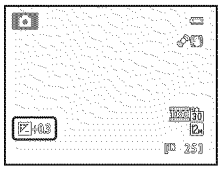


3 Press the ⓞ button to set the compensation value.

When an exposure compensation value other than **0.0** is applied, the value is displayed with the ☒ indicator in the monitor.

4 Press the shutter-release button to take a picture.

To reset exposure compensation, repeat from step 1 and set the value to **0.0**, then press ⓞ button.

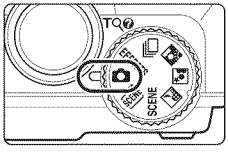


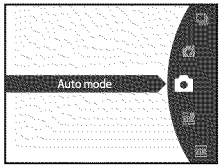
Histogram

See "Using the Histogram" (📖 43) for more information.

Selecting a Shooting Mode (Mode Dial)

Rotate the mode dial and align an icon to the mark to select one of the following shooting modes.





(Auto) mode (📖 24)

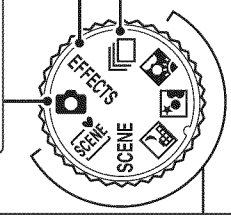
Pictures can be taken with an automatic, point-and-shoot mode recommended for first-time users of digital cameras. Brightness, vividness, and hue can be adjusted using the creative slider. Various settings are available in the shooting menu (📖 46).

EFFECTS Special effects (📖 85)

Effects can be applied to images during shooting. Six different effects are available.

Continuous shooting mode (📖 80)

Change settings to Continuous or BSS (best shot selector).



Scene mode (📖 61)

Camera settings are automatically optimized for the selected scene.

- (Scene auto selector) : By simply framing a picture, the camera automatically selects the optimum scene mode for simpler shooting.
- SCENE : Choose the desired scene from 15 different scene types, and the camera's settings are automatically optimized for the selected scene.
- (Night landscape) : Captures the atmosphere of night landscapes.
- (Night portrait) : The flash fires to light the portrait subject while preserving the atmosphere of the evening or night view.
- (Backlighting) : The flash fires when there is backlight to prevent the subject from being hidden in shadow, or use the HDR function to shoot when there are very bright areas and very dark areas in the same frame.

Changing 📷 (Auto) Mode Settings (Shooting Menu)

The following options can be set when shooting in 📷 (auto) mode (📖 24).

Image mode 📖 47

Choose the image mode (combination of image size and compression rate) at which images are saved. This setting can be changed when using any shooting mode.

White balance 📖 49

In order to make the colors in images appear as they do to the eye, set white balance to suit the light source.

Metering 📖 51

Choose how the camera meters exposure.

ISO sensitivity 📖 52

Set the ISO sensitivity to suit the brightness of the subject.

AF area mode 📖 53

Choose how the camera selects the focus area for autofocus.

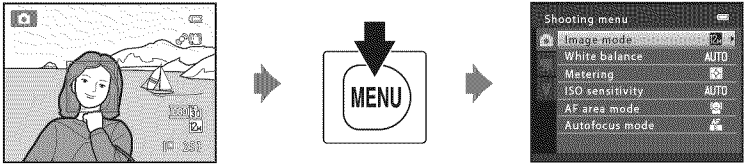
Autofocus mode 📖 60

Choose how the camera focuses.

Displaying the Shooting Menu

Rotate the mode dial to 📷 (auto) mode (📖 45).

Press the **MENU** button to display the shooting menu.



- Use the rotary multi selector to choose and apply settings (📖 11).
- To exit the shooting menu, press the **MENU** button.

Camera Settings that Cannot Be Applied Simultaneously

Some functions cannot be enabled in conjunction with others (📖 87).

Image Mode (Image Quality/Image Size)

(auto) → MENU (Shooting menu) → Image mode

Image mode refers to the combination of image size and image quality (compression) at which images are saved. Choose the image mode best suited to the manner in which images will be used and the capacity of the internal memory or memory card. The higher the image mode setting, the larger the size at which it can be printed or displayed without appearing noticeably "grainy," but limiting the number of images that can be saved.

Image mode	Size (pixels)	Description
4000×3000★	4000 × 3000	Images will be higher quality than 4000×3000. The compression ratio is approximately 1:4.
4000×3000 (default setting)	4000 × 3000	Best choice in most situations. The compression ratio is approximately 1:8.
3264×2448	3264 × 2448	
2592×1944	2592 × 1944	
2048×1536	2048 × 1536	Smaller size than 4000×3000, 3264×2448, or 2592×1944 allows more images to be saved. The compression ratio is approximately 1:8.
1024×768	1024 × 768	Suited to display on a computer monitor. The compression ratio is approximately 1:8.
640×480	640 × 480	Suited to full-screen display on a television with an aspect ratio of 4:3, or distribution by e-mail. The compression ratio is approximately 1:8.
3968×2232	3968 × 2232	Images with an aspect ratio of 16:9 are saved. The compression ratio is approximately 1:8.

The icon for the current setting is displayed in the monitor in shooting and playback modes (6, 8).

Image Mode

- When using shooting modes other than (auto) mode, this setting can be changed by pressing the MENU button.
- The setting is also applied to other shooting modes.
- This function cannot be used simultaneously with certain functions. See "Camera Settings that Cannot Be Applied Simultaneously" (87) for more information.

Number of Exposures Remaining

The following table lists the approximate number of images that can be saved in the internal memory and on a 4 GB memory card. Note that due to JPEG compression, the number of images that can be saved differs depending on the composition of the image. In addition, this number may vary depending on the make of memory card, even when the memory cards have the same specified capacity.

Image mode	Internal memory (approx. 74 MB)	Memory card[1] (4 GB)	Print size[2] (cm/in.)
12M 4000×3000★	12	650	34 × 25/13 × 10
12M 4000×3000	25	1280	34 × 25/13 × 10
8M 3264×2448	37	1910	28 × 21/11 × 8
5M 2592×1944	58	2940	22 × 16/8.5 × 6.5
3M 2048×1536	91	4640	17 × 13/7 × 5
PC 1024×768	297	15000	9 × 7/3.5 × 2.5
VGA 640×480	528	24100	5 × 4/2 × 1.5
16:9 4M 3968×2232	34	1720	34 × 19/13 × 7.5

[1] If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows "9999."

[2] Print size at an output resolution of 300 dpi. Print sizes are calculated by dividing the number of pixels by printer resolution (dpi) and multiplying by 2.54 cm (1 in.). However, at the same image size, images printed at higher resolutions will print smaller than the size indicated, and those printed at lower resolutions will print larger than the size indicated.

White Balance (Adjusting Hue)

(auto) → MENU (Shooting menu) → White balance

The color of light reflected from an object varies with the color of the light source. The human brain is able to adapt to changes in the color of the light source, with the result that white objects appear white whether seen in the shade, direct sunlight, or under incandescent lighting. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This is known as "white balance." For natural colors, choose a white balance setting that matches the light source before shooting. Although the default setting, **Auto**, can be used under most types of lighting, the white balance setting suited to a particular light source can be specified manually to achieve more accurate results.

AUTO Auto (default setting)

White balance is automatically adjusted to suit lighting conditions. Best choice in most situations.

PRE Preset manual

Useful when shooting under unusual lighting. See "Preset Manual" for more information (50).

Daylight

White balance adjusted for direct sunlight.

Incandescent

Use under incandescent lighting.

Fluorescent

Use under fluorescent lighting.

Cloudy

Use when taking pictures under overcast skies.

Flash

Use with the flash.

The icon for the current setting is displayed in the monitor (6). However, when **Auto** is selected, no icon is displayed.

Notes on White Balance

- When hue is adjusted using the creative slider (41), this feature cannot be set.
- This function cannot be used simultaneously with certain functions. See "Camera Settings that Cannot Be Applied Simultaneously" (87) for more information.
- At white-balance settings other than **Auto** or **Flash**, turn the flash off ( ) (32).

White Balance Settings

This setting can be set by pressing the MENU button even when using continuous shooting mode (80). (auto) mode and continuous shooting mode share the same **White balance** setting.

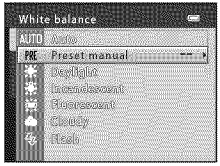
Preset Manual

Preset manual is used with mixed lighting or to compensate for light sources with a strong color cast when the desired effect has not been achieved with white balance settings like **Auto** and **Incandescent** (for example, to make images shot under a lamp with a red shade look as though they had been shot under white light).

Use the procedure below to measure the white balance value under the lighting used during shooting.

1 Place a white or gray reference object under the lighting that will be used during shooting.

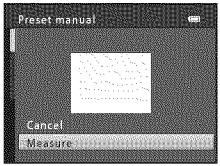
2 Display the shooting menu (46), use the rotary multi selector to choose **PRE Preset manual** in the **White balance** menu, and press the OK button.



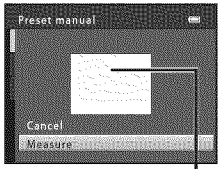
The camera zooms in to the position for measuring white balance.

3 Choose **Measure**.

To apply the most recently measured white balance value, choose **Cancel** and press the OK button. The white balance setting will not be measured again and the most recently measured value will be set.



4 Frame the reference object in the measuring window.



Measuring window

5 Press the OK button to measure a value for preset manual.

The shutter is released and the new white-balance value is set. No image is saved.

Note on Preset Manual

A value for flash lighting cannot be measured with **Preset manual**. When shooting using the flash, set **White balance** to **Auto** or **Flash**.

Metering

📷 (auto) → MENU (Shooting menu) → Metering

The process of measuring the brightness of the subject to determine exposure is known as metering.

Choose how the camera meters exposure.

Matrix (default setting)

Uses a wide area of the screen for metering. This metering mode provides the appropriate exposure for a variety of shooting conditions. Recommended for typical shooting.

Center-weighted

The camera meters the entire frame but assigns greatest weight to the subject in the center of the frame. Classic meter for portraits; preserves background details while letting lighting conditions at the center of the frame determine exposure. Can be used with focus lock (📖 55) to meter off-center subjects.

Note on Metering

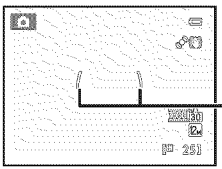
While digital zoom is in effect, metering is set to center-weighted metering or spot metering (the area in the center of the monitor is metered). The active metering area is not displayed.

Metering Settings

This setting can be set by pressing the MENU button even when using continuous shooting mode (📖 80). 📷 (auto) mode and continuous shooting mode share the same **Metering** setting.

Metering Area

The active metering area is displayed in the monitor when **Center-weighted** is selected for **Metering**.



ISO Sensitivity

(auto) → MENU (Shooting menu) → ISO sensitivity

When ISO sensitivity is increased, less light is needed when taking pictures.

Higher ISO sensitivity allows darker subjects to be captured. Additionally, even with subjects of similar brightness, pictures can be taken at faster shutter speeds, and blurring caused by camera shake and subject movement can be reduced.

- Although higher ISO sensitivity is effective when shooting darker subjects, shooting without the flash, shooting with the camera zoomed in, etc., images may contain noise.

Auto (default setting)

Sensitivity is ISO 160 when there is sufficient lighting; the camera compensates by raising sensitivity to a maximum of ISO 800 when lighting is dim.

Fixed range auto

Limits the ISO sensitivity to ISO 160-400 when the camera automatically adjusts ISO sensitivity. The camera sets the maximum value for ISO sensitivity to 400 for effective control over the amount of "grain" that appears in images.

160, 200, 400, 800, 1600, 3200

ISO sensitivity is locked at the specified value.

The icon for the ISO sensitivity setting is displayed in the monitor (6).

- When **Auto** is selected, the ISO icon is not displayed at ISO 160, but is displayed if the ISO sensitivity automatically increases to more than 160 (34).
- When **Fixed range auto** is selected, A ISO 400 is displayed.

Notes on ISO Sensitivity

- This function cannot be used simultaneously with certain functions. See "Camera Settings that Cannot Be Applied Simultaneously" (87) for more information.
- **Motion detection** (180) does not function when the ISO sensitivity is set to any setting other than **Auto**.

ISO Sensitivity Settings

This setting can be set by pressing the MENU button even when using continuous shooting mode (80). (auto) mode and continuous shooting mode share the same **ISO sensitivity** setting.

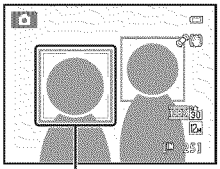
AF Area Mode

(auto) → MENU (Shooting menu) → AF area mode

Use this option to determine how the camera selects the focus area for autofocus.

Face priority (default setting)

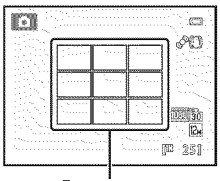
When the camera detects a human face, it focuses on that face. See "Face Detection" (□ 56) for more information. If more than one face is detected, the camera focuses on the face closest to the camera. When taking pictures of subjects other than people, or framing a subject with which no face is detected, the **AF area mode** setting switches to **Auto**, and the camera will automatically select the focus area (up to nine areas) containing the subject closest to the camera.



Focus area

AUTO Auto

The camera has nine focus areas, and automatically selects the focus areas containing the subject closest to the camera. Press the shutter-release button halfway to activate the focus area. When the shutter-release button is pressed halfway, the focus areas that are in focus (up to nine areas) selected by the camera will be displayed in the monitor.



Focus areas

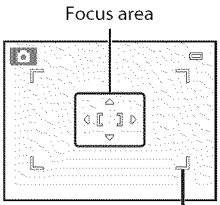
Manual

Select one of 99 focus areas in the monitor. This option is suited to situations in which the intended subject is relatively still and not positioned in the center of the frame.

Rotate the rotary multi selector or press ▲, ▼, ◀, or ▶ to move the focus area to where the subject is, and take a picture.

- To change settings for any of the following functions, first press the OK button to cancel focus-area selection, then change the settings as desired.
  - Flash mode, macro mode, self-timer
  - Brightness (exposure compensation), vividness, hue

  To return to the focus area selection screen, press the OK button again.

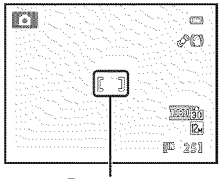


Focus area

Selectable focus area

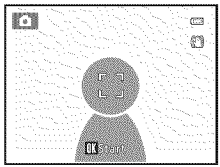
Center

The camera focuses on the subject at the center of the frame.
The focus area is always displayed at the center of the screen.



Subject tracking

By registering a subject, the focus area will automatically move to track and focus on the subject. → "Focusing on a Moving Subject (Subject Tracking))" (📖 58).



Notes on AF Area Mode

- When digital zoom is in effect, focus will be on the center of the screen regardless of the **AF area mode** setting.
- This function cannot be used simultaneously with certain functions. See "Camera Settings that Cannot Be Applied Simultaneously" (📖 87) for more information.
- Autofocus may not perform as expected (📖 29).

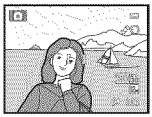
AF Area Mode Settings

This setting can be set by pressing the MENU button even when using continuous shooting mode (📖 80). (auto) mode and continuous shooting mode share the same **AF area mode** setting.

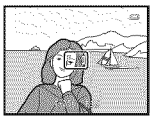
Focus Lock

Use focus lock to focus on off-center subjects when center is selected for AF area mode.
The following steps explain the usage of focus lock when **Center** is selected for **AF area mode**.

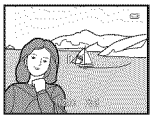
1 Position the subject in the center of the frame.



2 Press the shutter-release button halfway.
- Confirm that the focus area glows green.
- Focus and exposure are locked.



3 Continue holding down the shutter-release button halfway and recompose the picture.
- Be sure to maintain the same distance between the camera and the subject while the shutter-release button is pressed halfway.



4 Press the shutter-release button the rest of the way down to take the picture.

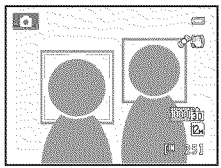
Face Detection

When the camera is pointed at the face of a person, the camera detects the face and focuses on it. The face detection function is activated in the following situations.

- When AF area mode is set to **Face priority** in (auto) mode or continuous shooting mode (53)
- When the following scene modes are selected:
  - Scene auto selector (62)
  - (night portrait) (65)
  - **Portrait** (67)
- When smile timer is selected (37)

1 Frame a picture.

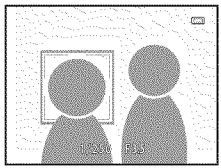
When the camera detects a face, that face is framed by a yellow double border.



When the camera detects more than one face, operation varies as follows depending upon the shooting mode.

Shooting mode	Face framed by double border	Number of faces that can be detected
(auto) mode or continuous shooting mode (**Face priority**)	The face closest to the camera • Other faces framed by single border.	Up to 12
Scene auto selector, (night portrait), and **Portrait** scene modes		
Smile timer	The face closest to the center of the frame • Other faces framed by single border.	Up to 3

2 Press the shutter-release button halfway.



The camera focuses on the face framed by the double border. The double border turns green and focus is locked.

When the camera is unable to focus, the double border will blink. Press the shutter-release button halfway again to focus.

Press the shutter-release button the rest of the way down to take a picture.

When using smile timer, the shutter is released automatically if the camera detects that the face framed by the double border is smiling; there is no need to press the shutter-release button (37).

Notes on Face Detection

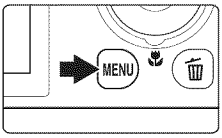
- If the camera is unable to detect any faces when the shutter-release button is pressed halfway with AF area mode set to **Face priority**, the AF area mode setting automatically switches to **Auto**.
- If no faces are detected when the shutter-release button is pressed halfway in the **Portrait** and (night portrait) scene modes, the camera will focus on the subject at the center of the frame.
- The camera's ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera. The camera may be unable to detect faces in the following situations:
  - When faces are partially hidden by sunglasses or otherwise obstructed
  - When faces take up too much or too little of the frame
- When the frame includes more than one face, the faces detected by the camera and the face on which the camera focuses depend upon a variety of factors, including the direction in which the faces are looking.
- When using autofocus and shooting subjects that are difficult to focus on (29), the subject may not be in focus even though the double border is green. If the subject is not in focus, change AF area mode to **Manual** or **Center** in (auto) mode, and try focus lock shooting (55) by focusing on another subject that is the same distance from the camera.
- Images captured using face detection will be rotated and displayed automatically according to the orientation of the faces detected, in full-frame and thumbnail playback modes (excluding images captured using continuous shooting mode (80)).

Focusing on a Moving Subject (Subject Tracking)

Use this mode to take pictures of moving subjects. By registering a subject, the camera can move the focus area automatically to track the subject.

1 Press the MENU button in (auto) mode or continuous mode.

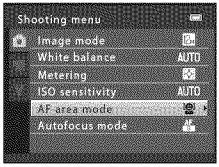
The shooting menu or continuous menu is displayed.



2 Use the rotary multi selector to select **Subject tracking** in the **AF area mode** option and press the OK button.

AF area mode. → 53

Press the MENU button after changing the settings and return to the shooting screen.



3 Register a subject.

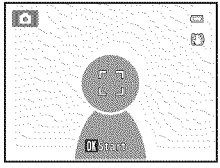
Align the subject with the white border at the center of the frame and press the OK button.

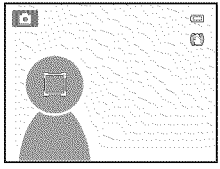
- The subject is registered.
- When the camera is unable to focus on the subject, the border will glow red. Change the composition and try registering the subject again.

When the subject is registered, a yellow double border (focus area) is displayed around that subject.

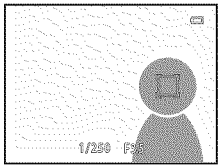
To change the subject, press the OK button to deregister the current subject.

If the camera cannot track the registered subject anymore, the focus area will disappear and the registration will be canceled. Register the subject again.





4 Press the shutter-release button to take a picture.



The camera focuses on the focus area when the shutter-release button is pressed halfway. The focus area will glow green and focus will be locked.

When the camera is unable to focus, the focus area will blink. Press the shutter-release button halfway again to focus.

If the shutter-release button is pressed halfway while the focus area is not displayed, the camera focuses on the subject at the center of the frame.

Press the shutter-release button all the way down to release the shutter.

Notes on Subject Tracking

- Digital zoom is not available.
- Adjust zoom position, flash mode, exposure compensation, and menu settings prior to registering the subject. If any camera setting is changed after the subject has been registered, subject registration will be canceled.
- It may be impossible to register the desired subject, or the camera may be unable to track the registered subject or may begin tracking a different subject, if the subject is moving rapidly, if there is a significant amount of camera shake, or if the camera detects a similar subject. The camera's ability to accurately track the registered subject is also dependent upon the size and brightness of the subject.
- When using autofocus and shooting subjects that are difficult to focus on (29), the subject may not be in focus even though the focus area glows green. If the subject is not in focus, change **AF area mode** (53) to **Manual** or **Center** in (auto) mode, and try focus lock shooting (55) by focusing on another subject that is the same distance from the camera.
- There may be functions with which this setting cannot be enabled. See "Camera Settings that Cannot Be Applied Simultaneously" (87) for more information.

Autofocus Mode

(auto) → MENU (Shooting menu) → Autofocus mode

Choose how the camera focuses.

AF-S Single AF (default setting)

The camera focuses when the shutter-release button is pressed halfway.

AF-F Full-time AF

The camera focuses continuously until the shutter-release button is pressed down halfway. Use with moving subjects. The sound of lens drive movement will be heard while the camera focuses.

Note on Autofocus Mode

There may be functions with which this setting cannot be enabled. See "Camera Settings that Cannot Be Applied Simultaneously" (87) for more information.

Autofocus Mode Setting

This setting can be set by pressing the MENU button even when using continuous shooting mode (80). (auto) mode and continuous shooting mode share the same **Autofocus mode** setting.

Autofocus Mode for Movie Recording

Autofocus mode for movie recording can be set with **Autofocus mode** (150) in the movie menu (146).

Nikon

No reproduction in any form of this manual, in whole or in part (except for brief quotation in critical articles or reviews), may be made without written authorization from NIKON CORPORATION.

CE

NIKON CORPORATION

CT1A01(11)
6MM05511-01

© 2011 Nikon Corporation